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and Mortality

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Week Ending August 10, 1968

U.S. DEPARTMENT OF HEALTH, EDUCATIONS AND WELFARE

HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION

PUBLIC HEALTH SERVICE

# EPIDEMIOLOGIC NOTES AND REPORTS TRANSFUSION MALARIA — Seattle, Washington

On May 12, 1968, a 54-year-old white American woman entered a hospital in Seattle, Washington, for insertion
of an aorto-iliac bypass graft. On May 13, the day of her
operation, she received 7 units of whole blood. Her postoperative course was uncomplicated, and she was discharged on May 22. On May 26, she developed low abdominal pain, nausea, vomiting, and fever, and was rehospitalized with a temperature of 104-F. During the next 8
days, she experienced daily temperature spikes up to
105-F. On June 4, numerous trophozoites of Plasmodium
falciparum were identified on a routine differential blood
smear. The patient gave no history of malaria, travel in
malarious areas, or usage of commonly shared syringes.

# Epidemiologic Notes Strategorts Tons fusion Milaria Seattle, Washington 297 Subhung, Pranto Sasociated Hepartitis – New Jersey 298 Subhung, Pranto Sasociated Hepartitis – New Jersey 298 Subhung, Pranto Prento County, Alabama 298 Current Trends Gurrant Trends Meningococcia Infections – United States 299 International Notes Quarantine Measures 304

On June 4, the patient received 1 gm of choloroquine phosphate orally, followed by 500 mg on each of the next 6 days. She became afebrile on June 7; blood smears taken at this time revealed only a few trophozoites of P. falciparum, and no trophozoites were detected on June 10. Between May 27 and June 14, her hematocrit decreased from (Continued on page 298)

TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
(Cumulative totals include revised and delayed reports through previous weeks)

(Committee to the state the state and delayed repairs through previous weeks)								
,	· 32nd WEE	K ENDED	MEDIAN	CUMULATIVE, F1RST 32 WEEKS				
DISEASE	August 10, . 1968			1968	1967	MEDIAN 1963 - 1967		
Aseptic meningitis	186	102	60	1.587	1.281	1.026		
Bruceliosis		. 3	8	127	163	163		
Diphtheria		1	1	100	62	108		
Encephalitis, primary:								
Arthropod-borne & unspecified	44	53		597	884			
Encephalitis, post-infectious		28		333	585			
Hepatitis, serum		42	1	2,584	1.299	2 04 000		
Hepatitis, infectious		646	587	26,824	23,535	24,826		
Malaria		28	4	1,296	1,213	63		
Measles (rubeola)	202	222	921	19,038	56,848	237,409		
Meningococcal infections, total	29	16	25	1,870	1,571	1,832		
Civilian		15		1,695	1,462			
Military		1		175	109			
Mumps				121,949				
Poliomyelitis, total		1	3	33	21	59		
Paralytic	1	1	3	33	18	53		
Rubella (German measles)	319	187		42,494	39,036			
Streptococcal sore throat & scarlet fever	4,499	4,710 .	4,190	283,590	305,796	275,262		
Tetanus		7	7	88	131	152		
Tularemia	-	7	7	123	109	155		
Typhoid fever	10	9	10	196	244	244		
Typhus, tick-borne (Rky. Mt. spotted fever) .	15	19	12	162	187	162		
Rabies in animals	64	74	69	2,262	2.814	2,814		

#### TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax: Botulism: Leptospirosis: Ga1, La1 Plague: Psittacosis: Calif1	4 21 1	Rabies in man: Rubella Congenital Syndrome: Trichinosis: N.J2, R.I1, W. Va2. Typhus, murine: Tex4.	4

#### TRANSFUSION MALARIA - (Continued from front page)

47 to 26 percent and her BUN increased from 9 to 45 mg percent. Both parameters subsequently returned to normal, and the patient was discharged from the hospital in early July.

The donors of the 7 units of blood were contacted, and only one had ever traveled in a malarious area. This man, a 22-year-old American Negro, had served in the U.S. Army in Vietnam from July 29, 1966, until March 31, 1967, when he returned to the United States. While in Vietnam he had taken a combination tablet containing 300 mg chloroquine base and 45 mg primaquine base once weekly in addition to 25 mg diamino-diphenylsulfone (DDS) daily. He continued his chloroquine-primaquine tablets for 6 weeks after returning to the United States. He denied a history of malaria or commonly shared syringes and had experienced no unexplained illnesses except for a 3-day febrile episode in late May 1967 which resolved spontaneously. On May 2, 1968, 13 months after returning from Vietnam, he donated the infected blood. Serum was obtained from this donor on June 14, 1968, and analyzed for the presence of antibodies to malaria by the indirect fluorescent antibody technique; serum dilution end points were 1:80 against P. falciparum, 1:40 against P. ovale, and 1:20 against both P. vivax and P. malariae. These values are consistent with a recent P, falciparum infection. Also

on June 14, this donor's hemoglobin electrophoresis was normal, but the red cells were deficient in glucose-6-phosphate dehydrogenase. Blood smears obtained from the donor on July 2 were free of malaria parasites; he then underwent a 500 cc phlebotomy and further blood smears were obtained on the next day; again, no malaria parasites were detected.

(Reported by Donald R. Peterson, M.D., M.P.H., Epidemiologist, Seattle-King County Department of Public Health, Seattle, Washington.)

#### Editorial Comment

The persistence of asymptomatic P. falciparum infection in the responsible donor for a minimum of 13 months suggests that he had acquired significant immunity to his infection. However, since the patient had never traveled in malarious areas prior to his arrival in Vietnam and since he had no history of clinical malaria attacks, the acquisition of such immunity is difficult to explain. It is conceivable that despite the schizonticidal effects of his suppressive therapy, the strain of P. falciparum which caused his infection was able to persist in his peripheral blood at densities sufficient to stimulate immunity but insufficient to cause symptoms.

#### SUBHUMAN PRIMATE-ASSOCIATED HEPATITIS - New Jersey

Between April 1 and June 1, 1968, five animal handlers, who cared for approximately 50 subhuman primates caged as pets in an area of a private home in Toms River.

New Jersey, developed hepatitis, The onsets of illness were April 1, 3, 5, May 29, and June 1, All patients were males from 17 to 33 years of age, and all experienced-nausea, upper abdominal discomfort, vointing, fever, and jaundice. Bilirubin determinations ranged from 3.2 to 8.2 mg percent and SGOT's from 51 to 50.0. Three patients were hospitalized; there were no deaths. None of the patients gave a history of contact with a jaundiced person or ingestion of raw shellfish during the 2 months prior to their illness, and all denied transfusions of blood and the self administration of parenteral drugs during the 6 months prior to onset of illness.

The three animal handlers who had onsets of illness during the first week in April had begun work at the home from 2 to 6 months before becoming ill, and they left their employment 1 to 3 days after their illness began. The other two animal handlers each began work 1 month prior to developing hepatitis. One of these, however, worked only 4 days, May 1.4; he developed hepatitis on June 1. Neither of these two men had been employed during the onsets of illness of the first three cases.

The five patients had been responsible for cleaning the cages of the primates and feeding the animals. Their duties required them to come into close physical contact with the animals, and all five had been either bitten or scratched on the hands or forearms by the primates. Although seven other persons also had close contact with the animals, they reported no illness. Transaminase determinations performed on June 13 on these seven persons were normal.

Between April and June 1, 1968, the collection of primates in the home included six woolly monkeys, five spider monkeys, 19 capuchins, 17 ringtail monkeys, two Celebes apes, and two black siamangs. There have never been any chimpanzees on the premises. Of the animals in the home, 23 were acquired after January 1, 1968, and 19 of these were under 1 year of age. No cases of jaundice had occurred in the animals or in the employees of the two animal firms which supplied the primates acquired since January.

(Reported by Ronald Altman, M.D., Acting Director, Division of Preventable Diseases, and Paul Marzinsky, Senior Field Representative, New Jersey State Department of Health; and two EIS Officers.)

#### TUBERCULOSIS - Greene County, Alabama

In December 1967, a 51-year-old fifth grade teacher in Greene County, Alabama, developed fever, night sweats, weakness, anorexia, weight loss (11 lbs in 1 month), and a productive cough. On January 27, 1968, she was hospitalized with hemoptysis. A tuberculin test at that time was negative; however, a chest X-ray was suggestive of

tuberculosis and a direct sputum smear was positive for acid fast bacilli. She was transferred to the district tuberculosis hospital where cultures were positive for Mycobocterium tuberculosis and radiologic studies demonstrated far advanced pulmonary tuberculosis.

Since the woman had had a negative X-ray on July 20, 1966. in Dallas, Texas, another X-ray was not required when she was employed by the Greene County school system in September 1966. She had been well until October 1966 when following the death of her mother, she had a "nervous breakdown" and temporarily stopped teaching. In October 1967, she noted the onset of cough with a "rattling" in the left anterior chest and consulted a physician. A tuberculin test was negative, and a chest X-ray was not taken. She was treated for her symptoms and improved. In November 1967, during routine school tuberculin testing, the woman had a test reaction of 5 mm induration. This test was considered of doubtful significance and there was no follow-up. Upon review in January 1968, the X-ray taken in July 1966 was still considered negative.

The patient lived alone and gave no history of contact with a known or suspected tuberculosis case. Following the diagnosis of her case, 15 friends and relatives were tuberculin tested; six had positive reactions, and all six had negative chest X-rays. In the school where the woman taught, all available students and adults who had not had a previous positive tuberculin test were tested and 34 had positive reactions (Table 1). All 41 students in the patient's fifth grade class were tested and 20 (48.8 percent) were positive; four of these 20 positives had been previously tested in November 1967 and had negative reactions. Of the 40 students in the other fifth grade in the school, 28 were tested and only one was positive. Of the 34 persons with positive reactions, two were hospitalized with

active primary tuberculosis — one was a student in the patient's room and the other was a third grade student in a room across the hall. Three others were considered inactive primaries and two had chest X-rays suggestive of tuberculosis. These five as well as the other 27 persons

Table 1 Results of Tuberculin Testing in the Patient's Schaol Greene Caunty, Alabama — February 1968

Grade	Number Positive	Number Negative	Total	Percent Positive
1	0	85	85	0
2	0	84	84	0
3	1	89	90	1.1
4	5	60	65	7.7
5	21	48	69	30.4
6	0	82	82	0
7	1.	54	55	1.8
8	0	44	44	0
9	0	47	47	0
10	1	75	76	1.3
11	3	65	68	4.4
12	2	58	55	3.6
Total	34	786	820	4.1

with positive tuberculin tests and negative X-rays were treated with isoniazid.

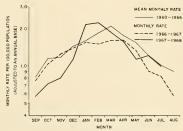
(Reported by Frederick S. Wolfe, M.D., Director, Division of Tuberculosis Control, Bureou of Preventoble Diseoses, Alobomo Deportment of Public Heolth; Sidney J. Williams, M.D. Health Officer. Greene County; Tuberculosis Program, NCDC; and an EIS Officer.)

## CURRENT TRENDS MENINGOCOCCAL INFECTIONS - United States

The monthly incidence of meningococcal infections in the United States for May, June, and July 1968 remained below the mean monthly rate for the period 1960-1966 (Figure 1). For the first 6 months of 1968 a total of 1,661 meningococcal infections were reported in the United States compared with 1,405 reported for the first 6 months of 1967. The Middle Atlantic. South Atlantic, and West South Central divisions reported the largest increases in reported infections compared with the previous year (Table 2). Military cases accounted for 9.8 percent of the 65 month total (163 of 1,661) in 1968 compared with 7.4 percent of the total (104 of 1,405) for the similar period in 1967.

Of 355 meningococcal isolates received by NCDC between January 1 and June 30, 1968, for serogrouping and sulfadiazine sensitivity testing, 157 or 44.2 percent were identified as Serogroup B, 143 or 40.3 percent as Serogroup C, 20 or 5.6 percent as either Serogroup X, Y, or Z, and the remainder were not typed.

Figure 1
MONTHLY INCIDENCE OF MENINGOCOCCAL
INFECTION — UNITED STATES, 1960-1968



(Continued on page 304)

#### TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

#### FOR WEEKS ENDED

\_\_ AUGUST 10, 1968 AND AUGUST 12, 1967 (32nd WEEK)\_\_\_\_\_

	Ι		Τ	T		ENCEPHALIT	IS		HEPATITIS		
AREA		PTIC NGITIS	BRUCELLOSIS	DIPHTHERIA	incl	mary uding cases	Post- Infectious	Serum	Infec	tious	MALARIA
	1968	1967	1968	1968	1968	1967	1968	1968	1968	1967	1968
UNITED STATES	186	102	2	1	44	53	7	93	840	646	30
MPIT PAGE AND	1										
NEW ENCLAND Maine.*	6	1 1	-	-		-	-	4	36	28	1
New Hampshire		1		1 7		-			1	1	-
Vermont	1 .	1		1 1					4	1	
Massachusetts	3							1	16	16	
Rhode Island	3	-	-	-	-	-	-	-	4	4	-
Connecticut	-	, -	-	-	-	-	-	4	11	6	-
MIDDLE ATLANTIC	23	6		-	6	5	_	34	148	73	1
New York City	8	1	-	-	-	2	-	18	48	5	_
New York, up-State.	3	1	-	-	1	-	-	4	39	19	-
New Jersey	9	3	-	-	2	1	-	12	38	28	-
Pennsylvania	3	1	-	-	3	2	-	-	23	21	1
EAST NORTH CENTRAL	37	9	-	-	13	22	2	4	129	74	1
Ohio	30	1	-	-	10	19	-	2	46	14	-
Indiana	1		-	-	-	2	1	- 1	13	5	-
Illinois	1	3	-	-	3	1	-	1	26	17	-
Michigan Wisconsin	5	5			-	-	1	1	39 5	34	1
WEST NORTH CENTRAL	4	-	-	-	-	-	1	1	50	33	5
Minnesota	1	-	1	-	-	-	1	1	20	2	-
Iowa Missouri	1		1 :	- 1	-	-	-	-	4	3	-
North Dakota		_	-		-	-	-	-	9	22	-
South Dakota			-	-	-	-	-	-	2 4	-	-
Nebraska	1	1 -	1 -			1	-	-	4	1	-
Kansas	- :		-	-		- 1	-	-	7	5	5
SOUTH ATLANTIC	33	22		1	5	10		5	46	92	7
Delaware	1	22		1	3	10	-	>	46	92	/
Maryland	1	19	-	-		1	-	4	1	16	1
Dist. of Columbia		1.7			1	1	1 1	4	1	2	1
Virginia	29	1	_		3	1			6	13	1
West Virginia	í	1	_	_	1	3	_	_	1	6	1 1
North Carolina		2	-	-		1	-	-	14	8	5
South Carolina	-	-	-	1	-	-	-	-	1	2	-
Ceorgia. *	-	-	-	-	-	-	-	-	9	19	-
Florida	2	-	-	-	1	4	-	1	10	25	-
EAST SOUTH CENTRAL	2	11	-	- 1	1	4	-	1	42	32	_
Kentucky	1	2	-	- 1	-	-	-		15	9	-
Tennessee	1	1	-	- 1	1	4	-	-	17	18	-
Alabama	-	-	-	-	-	-	-	1	3	5	-
Mississippi	-	8	-	- 1		-	-	-	7	-	-
WEST SOUTH CENTRAL	23	11	2	-	5	3	-	1	84	81	-
Arkansas	-	1	-	- 1	-	1	-	-	6	4	-
Louisiana	7	2	1	- 1	5	1	-	1	12	15	-
Oklahoma Texas	16	2	1	1 1		1		-	8 58	4 58	-
MOUNTAIN	-	-	-	-	3	1	-	1	34	28	8
Montana	-	1	-	-		-	-	-	7	1	-
Idaho			-		-	-	-	-	1	7	-
Wyoming Colorado	- 1			-	3	1	-	1	1	1	- 8
New Mexico	-				3	1		1	4	3	8
Arizona	-					1 - 1			4	14	
Utah	-		-	-			-		4	2	
Nevada	- 1	-	-	-	-	-	-	-	-	-	-
PACIFIC	58	42		_	'1	8	4	42	271	20.5	8
Washington	1	1	-	-	_	-	-	-	29	15	-
Oregon	-	4	-	-	-	1	-	2	10	14	-
California	55	28	-	-	10	7	4	40	229	175	5
Alaska	1		-	-	1	-	-	-	1	-	-
Hawaii	1	9	-	-	-	-	-	-	2	1	3
Puert   Ric	-	1	-	-	-	-	- 1	-	16	16	-

\* Delayed reports: Encephalitis, primary: Me. 1
Encephalitis, post-infectious: Pa. delete 1
Hepatitis, infectious: Me. 2, Ga. 31

# Table III. Cases of specified notifiable diseases: united states $\mbox{for weeks ended}$

AUGUST 10, 1968 AND AUGUST 12, 1967 (32nd WEEK) - CONTINUED

		orno (n.)		MENINGO	COCCAL INF	ECTIONS.					
AREA	MEA	SLES (Rube			TOTAL		MUMPS	Total	OLIOMYELIT	lytic	RUBELLA
			ative			ative			-	Cum.	
UNITED STATES	1968 202	1968	1967 56,848	1968 29	1968 1,870	1967	1968 714	1968	1968	1968 33	1968 319
ONLIED SIMIES					1			1	1 *	33	
NEW ENGLAND	7	1,141	822	2	94	65	82	-	-	1	48
Maine*	-	35 141	234 74		6 7	3 2	1 2	-	-	-	3
New Hampshire Vermont		2	34		1	1	6				2
Massachusetts	4	364	330	1	42	32	48	-	-	1	32
Rhode Island	-	5	62	-	7	4	8	-	-	-	7
Connecticut	3	594	88	1	31	23	17	-	-	-	4
MIDDLE ATLANTIC	· 82	3,855	2,204	9	338	256	69	-	-	-	43
New York City	50	1,900	. 436	3	68 58	46	67	-	-	-	22 21
New York, Up-State. New Jersey	22 7	1,206	557 480	4	122	61 91	NN 2	-	[	-	- 21
Pennsylvania.*	3	141	731	2	90	58	NN	-	-	-	-
					227		148				49
EAST NORTH CENTRAL	28	3,676 . 288	5,237 1,130	6 2	62	210 71	148	1		1	10
Ohio Indiana	1	643	587	1	29	22	16	-			4
Illinois	5	1,347	927	-	51	52	9	-	-	1	3
Michigan	2	256	902	3	65	50	20	-	-	-	17
Wisconsin	20	1,142	1,691	-	20	15	91	-	-	-	15
WEST NORTH CENTRAL	5	377	2,820	3	100	67	10	-	-	1	12
Minnesota	-	15	131	1	23	16	2	-	-	-	1
Iowa	-	96	744 332		6 32	13	8	1	-	1	6
Missouri	3	81 131	332 845	1	32	13			1 -	1	2
North Dakota South Dakota	3	4	52		5	6	NN		_	[	_
. Nebraska	2	40	623	-	6	12	-	-	-	-	-
Kansas	-	10	93	1	25	6	-	-	-	-	-
SOUTH ATLANTIC	20	1,471	6,790	. 3	380	303	60	_	_	1	40
Delaware	-	15	43	1	8	6	9	-	-	-	2
Maryland		94	149	-	28	37	6	-	-	-	1
Dist. of Columbia	-	6	. 22	-	14	10	T .	-	-	-	1 1
Virginia	3 8	296 279	2,167 1,362 °	-	30	37 21	2 24	-	-	-	3 24
West Virginia North Carolina	-	282	842	1	75	66	NN	1		1	24
South Carolina	-	12	507	-	56	29	-	-	-	-	-
Georgia	-	4	32	-	73	44	-	-	-	-	-
Florida	9	483	1,666	1	87	53	19	-	-	-	10
EAST SOUTH CENTRAL	3	486	5,104	1	160	123	38	-	-	1	18
Kentucky		103	1,316	-	64	34	8	1		1	3
Tennessee	1	58 93	1,813 1,316	-	51 24	51 25	24	1 1	1	-	14 1
Alabama	1	232	659	1	21	13	í	-	_		_
ureereerbbrr	•	232									
WEST SOUTH CENTRAL	28	4,634	17,102	-	297	212	103	1	1 .	18	23
Arkansas	-	3 2	1,404	-	20 84	28 83	1	1	1	1 1	1
Louisiana Oklahoma	- 1	111	3,325	-	84 49	16	2		-	1	
Texas	28	4,518	12,222	-	144	85	100	1	1	17	23
MOUNTAIN	8	971	4,578	_	29	27	40	-	-	-	37
Montana	-	67	277	-	3	-	-	-	-	-	-
Idaho	-	20	375	-	11	1	3	-	-	-	-
Wyoming	-	51	180	-	1.0	1	10	-	-		17
Colorado New Mexico	2	494 92	1,539 576	-	10	12	10 8	-	_	-	6
Arizona	2	221	1,005		1	4	19		-		14
Utah	-	21	357	-	î	4		-	-	-	-
Nevada	-	5	269	-	3	2 .	-	-	-	-	-
PACIFIC	21	2,427	12,191	5	245	308	164	-	-	10	49
Washington	-	515	5,414	-	37	27	18	-	-	1	- 1
Oregon	5	488	1,563	1	19	25	23		-	9	7 28
California Alaska	16	1,387	4,919 133	4	176	243	101 10		-	9	28 11
Hawaii	-	35	162	-	11	4	12	-		-	3
Puerto Rico	9	383	2,087	-	19	12	16	-	-	-	2
		503	2,007		,						

<sup>\*</sup> Delayed reports: Measles: Pa. delete 2, S. C. delete 1, Ky. delete 76 Rubella: Me. 2, S. C. 1

#### TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

AUGUST 10, 1968 AND AUGUST 12, 1967 (32nd WEEK) - CONTINUED

AREA	STREPTOCOLUAL SORE THROAT & SCARLET FEVER	TET/	ANUS	TULA	REMIA	TYP	OID	TICK	S FEVER -BORNE . Spotted)		IES IN IMALS
	1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968
NITED STATES	4,499	3	88	-	123	10	196	15	162	64	2,262
NEW ENGLAND	585	_	2	_	46	2	7	_		,	68
Maine. T	11	-		-	-		-	-	-	2	53
New Hampshire	12	-	-	-	-	-	1	-	-	-	2
Vermont	66	-		-	46			-	-	-	10
Massachusetts Rhode island	99 30	-	1	-	-	1	3				2
nnecticut	367	-	1	-	-	1	3				1
					_						
MIDDLE ATLANTIC New York City	150	-	12 6	-	7	1	20	1	14	5	31
New York, Up-State.	148		4	-	7	1	3	1	2	5	24
New Jersey	NN	-		-		-	5	-	6	-	-
Pennsylvania	1	-	2	-	-	-	3	-	6	-	7
EAST NORTH CENTRAL	251	_	8	_	8	_	26	_	6	10	210
Ohic	45	-	-	-	1	-	12	-	4	7	84
'ndipna	43	-	1	-	1	-	3	-	-	2	70
Illinois	46	-	5	-	5	-	10	-	2	1	25 10
Michigan	74	-	2	-	1		1				21
Wisconsin	43		-				1				
WEST NORTH CENTRAL	220	-	4	-	9	-	8	-	4	9	559
Minne t	2.2	-	1	-	-	-	-	- :	-	5	164
I wa	43	-	1	-	- 1	-	1		1	1	91 81
North Dak ta	17 76		2	- !	7		3		1	1	88
S arh Diret	1 4	-	_		1		1	- 1	1	-	79
Nebraska	58	-	-	-	-	-	3	- 1	1	1	25
Kansas	-	-	-	-	1	-	-	-	-	2	31
-0 TH ATLANTIC	389	2	19		8		43	10	87	8	243
Delaware	389	2	19	1	- 8		43	- 10	-	-	243
Maryland	59	1	2	-	-	-	9	3	10	-	5
Dist. of Columbia	-	-	2	-	-		2	-		-	1
Virginia	117	-	4	-	1	-	8	3	31	1	92
West Virginia North Carolina	72		1 2		2	-	2	2	27		31
South Carolina		1	2		-		-	2	6		
Georgia	3	-	-	-	3	-	11	-	11	2	38
Florida	132	-	6	-	2	-	11	-	2	5	67
EAST SOUTH CENTRAL	834	_	10		6	1	24	2	29	14	506
Kentucky	18		10		1	-	5	- 1	6	5	248
Tennessec	640	-	3	-	4	-	13	2	19	9	236
Alabama	106	-	3	-	-	-	-	-	3	-	21
Mississippi	70	-	3	-	1	1	6	-	1	-	,
WEST SOUTH CENTRAL	490	1	18	-	32	5	26	2	16	. 6	388
Arkansas	6	-	4	-	6	-	4	-	1	1	45
Louisiana	16	1	7	-	6	-	3		-	1 1	35
Oklahoma Texas	3	-	7	-	8 12	3 2	9 10	1	8 7	3	114 194
reAdb	465		′		1.2	2	10	1		,	
MOUNTAIN	993	-	-	-	6	-	12	-	5	1	59
Montana	12	-	-	-	-	-	-	-	-	1	-
Idaho	123		-		1	-	1	1	1		3
Wyoming Colorado	676			_	3		2	-	4	-	3
New Mexico	111	-	-	-	-	-	6	-	-	-	23
Arizona*	25	-	-	-		-	3	-	-	1	30
Utah Nevada	32	-	- 1	- 1	2	-	-	-	- 1		-
PACIFIC	587	-	15	-	1	1	30	-	1	9	198
Washington	41	-	1	-	-	-	2	-	-	1	1 5
Oregon	59 378		1 13		1	1	4 24		1	7	192
Alaska	20		- 13	-	-	-	-	-	-	-	-
Hawaii	89	-	-	-	-	-	-	-	-	-	-
Puerto Rico			,				1	-	-	-	17
ruetto Rico	7	-	6	-		-	1				17

Week No.

#### TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED AUGUST 10, 1968

32

(By place of occurrence and week of filing certificate, Excludes fetal deaths)

()			e anu week	or 1111	ng certificate. Excludes				
	All Ca	uses	Pneumonia	Under		All Ca	uses	Pneumonia	Under
Area	All Ages	65 years and over	and Influenza All Ages	1 year All Causes	Area	All Ages	65 years and over	and Influenza All Ages	l year All Causes
NEW ENGLAND:	672	416	31	29	SOUTH ATLANTIC:	1,167	581	42	74
Boston, Mass	210	129	15	10	Atlanta, Ga	148	66	3	13
Bridgeport, Conn	30	16	-	3	Baltimore, Md	229	120	2	7
Cambridge, Mass	22	15	-	1	Charlotte, N. C	50	21	2	3
Fall River, Mass	25	13	2	3	Jacksonville, Fla	67	34	2	4
Hartford, Conn	51	32	2	3	Miami, Fla	81	41	9	3
Lowell, Mass Lynn, Mass	39	23	1	1	Norfolk, Va Richmond, Va	69	25	2	2
New Bedford, Mass	25 33	16 22	1	1	Savannah, Ca	79 35	37 21	1 4	10
New Haven, Conn:	53	38		2	St. Petersburg, Fla	74	56	5	3
Providence, R. I	54	34 .	5	2	Tampa, Fla	79	50	6	4
Somerville, Mass	17	9	3	-	Washington, D. C	224	92	4	16
Springfield, Mass	49	30	1	1	Wilmington, Del	32	18	2	5
Waterbury, Conn	21	13	-	1			l .		_
Worcester, Mass	43	26	1	-	EAST SOUTH CENTRAL: Birmingham, Ala	591 78	296 37	21	46 3
MIDDLE ATLANTIC:	3,073	1,785	122	127	Chattanooga, Tenn	56	29	3	5
Albany, N. Y	54	31	-	. 5	Knoxville, Tenn	41	27	2	1
Allentown, Pa	27	16	4	1	Louisville, Ky	107	62	8	16
Buffalo, N. Y Camden, N. J	136 35	72 26	2	10	Memphis, Tenn Mobile, Ala	138	63 20	-	8
Elizabeth, N. J	40	21	1	1	Montgomery, Ala	45 40	16	2	3 5
Erie, Pa	52	30	4	3	Nashville, Tenn	86	42	6	5
Jersey City, N. J	48	36	6	3		00	42	0	1
Newark, N. J	62	27	2	2	WEST SOUTH CENTRAL:	1,087	573	40	66
New York City, N. Y	1,506	870	65	52	Austin, Tex	29	13	1	2
Paterson, N. J	32	21	1	-	Baton Rouge, La	47	28	-	3
Philadelphia, Pa	503	288	9	22	Corpus Christi, Tex	25	15	1 7	1
Pittsburgh, Pa	160	86	5	8	Dallas, Tex	141	72	3	6 7
Reading, Pa	66	45	3	1	El Paso, Tex	50 72	22 39	1	3
Rochester, N. Y Schenectady, N. Y	122 26	74 18	8	8	Fort Worth, Tex Houston, Tex	178	79	2	11
Scranton, Pa	31	21	4	1	Little Rock, Ark	66	40	5	4
Syracuse, N. Y	. 75	48	1	4	New Orleans, La	180	88	11	13
Trenton, N. J	38	18		2	Oklahoma City, Okla	76	46	5	4
Utica, N. Y	28	17	5	1	San Antonio, Tex	107	68	4	5
Yonkers, N. Y	32	20	1	3	Shreveport, La	61	33	3	5
					Tulsa, Okla	55	30	4	2
EAST NORTH CENTRAL:	2,527	1,370 -	67	131	MOUNTAIN:	445	247	19	26
Akron, Ohio	59 28	34 15	Ī	4	Albuquerque, N. Mex	50	20	3	4
Chicago, Ill	. 741	366	23	50	Colorado Springs, Colo.		17		1
Cincinnati, Ohio	158	95	5	7	Denver, Colo		65	3	9
Cleveland, Ohio	196	86		10	Ogden, Utah	10	7	2	
Columbus, Ohio	123	68	2	5	Phoenix, Ariz	90	49	3	- 2
Dayten, Ohio	97	55	. 2	4	Pueblo, Colo	30	22	3	-
Detroit, Mich	329	183	4	9	Salt Lake City, Utah	62	38		5.
Evansville, Ind	42	28	3	2	Tucson, Ariz	60	29	5	5
Flint, Mich	48	25	-	5	PACTETC:	1 551	91/	20	-59 -
Fort Wayne, Ind Gary, Ind	49 23	26 11	5	2	PACIFIC: Berkeley, Calif	1,551 20	914 16	20	. 29 .
Grand Rapids, Mich	23 59	38	2 7	4	Fresno, Calif	48	23	2	3
Indianapolis, Ind	154	77	3	8	Glendale, Calif	31	22	-	-
Madison, Wis	56	27	7	3	Honolulu, Hawaii	44	23	2	.3
Milwaukee, Wis	131	78	í	1	Long Beach, Calif	88	58	-	2
Peoria, Ill	38	17		5	Los Angeles, Calif	475	273	4	16 '
Rockford, Ill	24	19	-	1	Oakland, Calif	7.5	46	2	6
South Bend, Ind	27	19	1	2	Pasadena, Calif	30	19	1 7	
Toledo, Ohio	104	76	2	4	Portland, Oreg	121	76	1	5
Youngstown, Ohio	41	27	-	3	Sacramento, Calif	59	36 49	2	5
WEST MODEL CENTRAL.	7/5	160	22	24	San Diego, Calif San Francisco, Calif	90 200	107	2	8
WEST NORTH CENTRAL: Des Moines, Iowa	745 56	460 33	22 1	24	San Francisco, Calif	33	19	-	1 1
Duluth, Minn	32	20	2	1	Seattle, Wash		92	5	6
Kansas City, Kans	29	12	3	1	Spokane, Wash,	47	30	-	1
Kansas City, Mo	125	76	4	3	Tacoma, Wash	38	25	-	3
Lincoln, Nebr	23	19	-	-					
Minneapolis, Minn	104	69	2	4	Total	11,858	6,642	384	582
Omaha, Nebr	78	47	1	4					
St. Louis, Mo	199	123	3	5		mulative T		moutone	oke
St. Paul, Minn	56	35	1	1	including report	eu correct	rous for b	rearons we	eks
Wichita, Kans	43	26	5	3	All Causes, All Ages			412.893	

All Causes, All Ages
All Causes, Age 65 and over239,020
Pneumonia and Influenza, All Ages 17,278
All Causes Under 1 Year of Age 19.207

Total United States

MENINGOCOCCAL - (Continued from page 299)

# Table 2 Reparted Meningacaccal Infections United States

January through June 1968 and 1967							
Jan June 1968 Total	Jan June 1967 Total						
87	57						
286	219						
198	179						
86	63						
344	270						
144	117						
274	199						
25	25						
217	276						
	Jan June 1968 Total 87 286 198 86 344 144 274 25						

(Reported by the Bacterial Diseases Section and Statistics Section, Epidemiology Program, and the Bacterial Serology Unit and Bacterial Reference Unit, Bacteriology Section, Laboratory Program, NCDC.)

1 661

1.405

# EPIDEMIOLOGIC NOTES AND REPORTS FOLLOW-UP SUSPECT WOUND BOTULISM - California

The 44-year-old farm laborer who developed a clinical syndrome suggestive of botulism following a compound fracture (MMWR, Vol. 17, No. 22) has gradually improved. He is fully ambulatory with residual mild muscle weakness, Attempts to isolate Clostridium botulinum from the wound were unsuccessful, and toxin could not be demonstrated in this patient's serum. The case has been reported as wound botulism.

(Reported by Philip K. Condit, M.D., M.P.H., Chief, Bureau of Communicable Diseases, California State Department of Public Health; William Defries, M.D., Health Officer, Fresno County Health Department; Fresno General Hospital; and an EIS Officer.)

### INTERNATIONAL NOTES QUARANTINE MEASURES

Additional Immunization Information for International Travel, 1967-68 edition, Public Health Service Publication No. 384

The following information change should be made in Section 6.

#### Page 85

Under District of Columbia: Washington, USPHS Out Patient Clinic, Clinic Hours,

Delete: Tuesday, Thursday, and Friday 3:00 p.m., Registration, 2:45 p.m.

Insert: Monday, Tuesday, Thursday, and Friday 2:00 p.m., Registration, 1:45 p.m. THE MORBIOITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULA-TION OF 17,000. IS PUBLISHED AT THE NATIONAL COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA.

DISEASE CENTER, AATIONAL COMMUNICABLE DISEASE CENTER OAVIO J. SENCER, M.O. CHIEF, EPIDEMIOLOGY PROGRAM ACTING CHIEF, STATISTICS SECTION IOA L. SHERMAN, M.S. EDITOR MICHAEL B. GREGG M.O. MICHAEL B. MICHAEL B. GREGG M.O. MICHAEL B. MICHAEL B. M

EDITOR MICHAEL B GREGG, MO HAS LISTED FRACEDURES FOR REPORTING MORBIOLITY AND MORBILITY. THE NATIONAL COMMUNICABLE DIDE AS COMMUNICABLE TO PROTECTIVE MORBIOLITY AND MORBIOLITY. THE NATIONAL COMMUNICABLE DIDE AS COMMUNICABLE TO PROTECTIVE AS COMMUNICABLE TO PROTECTIVE AS COMMUNICABLE DIDE AS COMMUNICABLE AND GREAT OFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CONTROL OFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CONTROL OFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CONTROL OFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CONTROL OFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CONTROL OFFICE AS COMMUNICATIONS AND THE CONTROL OF THE CONTROL OFFICE AS COMMUNICATIONS AND THE CONTROL OF T

O TO: NATIONAL COMMUNICABLE DISEASE CENTER ATLANTA, GEORGIA 30333 ATTN: THE EDITOR MORBIDITY AND MORTALITY WEEKLY REPORT

NOTE: THE OATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE NCOC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES ON SATUROAY! COMPLEO OATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIOAY.

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